

Well Name: **SRC Haythorn 32-36D**

Surface Location: SRC Haythorn 31-36D Pad Sec.36-T7N-R66W
 North American Datum 1983 US State Plane 1983 Colorado Northern Zone

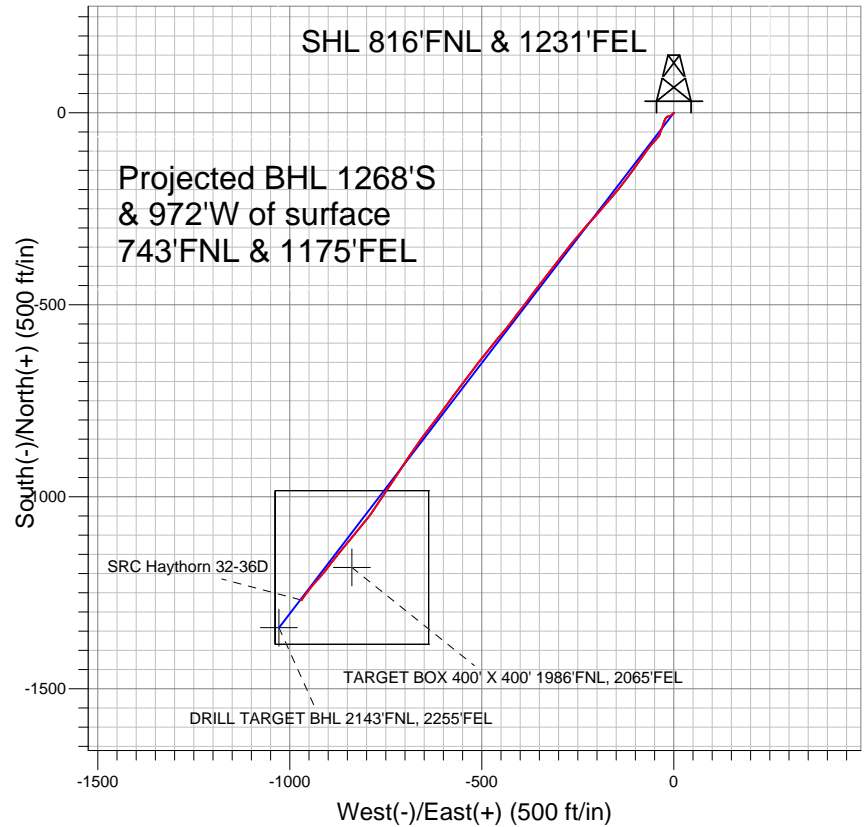
Ground Elevation: 4853.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1439386.22	3216717.93	40.536900	-104.720283

Original Well Elev WELL @ 4866.0ft (Original Well Elev)

Slot

Synergy Resources



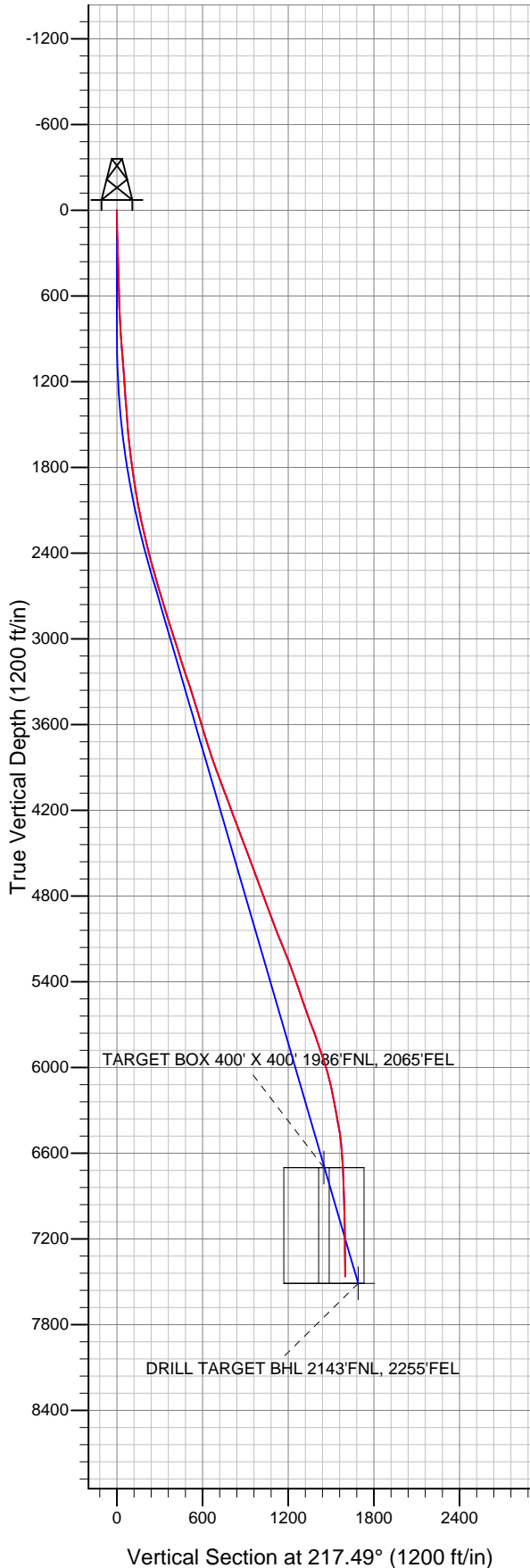
LEGEND

- + SRC Haythorn 32-36D, Wellbore #1, Plan #1 (2-16-11) V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
 7700'MD & 7462'TVD @ 1598'VS
 0.5 deg Inc 290.1 deg AZ

Project: SEC.36-T7N-R66W
 Site: SRC Haythorn 31-36D Pad Sec.36-T7N-R66W
 Well: SRC Haythorn 32-36D
 Plan: Wellbore #1





Directional

Synergy Resources

SEC.36-T7N-R66W

SRC Haythorn 31-36D Pad Sec.36-T7N-R66W

SRC Haythorn 32-36D

Wellbore #1

Survey: Survey #1

Standard Survey Report

12 October, 2011

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Haythorn 32-36D
Project:	SEC.36-T7N-R66W	TVD Reference:	WELL @ 4866.0ft (Original Well Elev)
Site:	SRC Haythorn 31-36D Pad Sec.36-T7N-R66W	MD Reference:	WELL @ 4866.0ft (Original Well Elev)
Well:	SRC Haythorn 32-36D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.36-T7N-R66W, Weld County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site		SRC Haythorn 31-36D Pad Sec.36-T7N-R66W			
Site Position:		Northing:	1,439,386.06ft	Latitude:	40.53690°
From:	Lat/Long	Easting:	3,216,697.92ft	Longitude:	-104.720355°
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.50 °

Well	SRC Haythorn 32-36D					
Well Position	+N/-S	0.0 ft	Northing:	1,439,386.22 ft	Latitude:	40.53690
	+E/-W	0.0 ft	Easting:	3,216,717.93 ft	Longitude:	-104.720283
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,853.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2/16/2011	8.86	67.19	53,263

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	217.49	

Survey Program		Date	10/12/2011		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
126.0	7,700.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey	Survey Data									
	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	126.0	0.90	216.30	126.0	-0.8	-0.6	1.0	0.71	0.71	0.00
	217.0	1.50	227.30	217.0	-2.2	-1.9	2.9	0.70	0.66	12.09
	460.0	2.10	229.60	459.9	-7.2	-7.6	10.4	0.25	0.25	0.95
	581.0	2.10	263.60	580.8	-8.9	-11.5	14.1	1.01	0.00	28.10
	674.0	2.30	254.90	673.7	-9.6	-15.0	16.7	0.42	0.22	-9.35
	768.0	2.70	233.00	767.6	-11.4	-18.6	20.4	1.09	0.43	-23.30
	862.0	4.30	207.00	861.4	-15.9	-22.0	26.0	2.36	1.70	-27.66
	956.0	4.60	201.50	955.2	-22.5	-24.9	33.1	0.55	0.32	-5.85
	1,050.0	4.70	198.20	1,048.9	-29.7	-27.5	40.3	0.30	0.11	-3.51
	1,143.0	4.40	200.30	1,141.6	-36.7	-30.0	47.3	0.37	-0.32	2.26
	1,237.0	4.60	199.00	1,235.3	-43.6	-32.4	54.3	0.24	0.21	-1.38
	1,331.0	4.40	198.90	1,329.0	-50.6	-34.8	61.3	0.21	-0.21	-0.11

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Haythorn 32-36D
Project:	SEC.36-T7N-R66W	TVD Reference:	WELL @ 4866.0ft (Original Well Elev)
Site:	SRC Haythorn 31-36D Pad Sec.36-T7N-R66W	MD Reference:	WELL @ 4866.0ft (Original Well Elev)
Well:	SRC Haythorn 32-36D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,425.0	4.00	198.50	1,422.7	-57.1	-37.0	67.8	0.43	-0.43	-0.43	
1,518.0	4.60	221.20	1,515.5	-63.0	-40.5	74.6	1.93	0.65	24.41	
1,612.0	6.10	222.40	1,609.1	-69.5	-46.4	83.4	1.60	1.60	1.28	
1,706.0	6.90	222.20	1,702.5	-77.4	-53.5	94.0	0.85	0.85	-0.21	
1,799.0	7.90	220.10	1,794.7	-86.4	-61.4	105.9	1.11	1.08	-2.26	
1,893.0	8.40	214.30	1,887.7	-97.0	-69.4	119.2	1.02	0.53	-6.17	
1,987.0	9.20	215.60	1,980.6	-108.8	-77.7	133.6	0.88	0.85	1.38	
2,081.0	11.20	217.00	2,073.1	-122.2	-87.5	150.2	2.14	2.13	1.49	
2,175.0	12.20	213.30	2,165.2	-137.8	-98.5	169.3	1.33	1.06	-3.94	
2,269.0	12.80	215.40	2,257.0	-154.6	-110.0	189.6	0.80	0.64	2.23	
2,362.0	13.80	219.40	2,347.5	-171.6	-123.0	211.0	1.46	1.08	4.30	
2,456.0	14.70	217.90	2,438.6	-189.6	-137.4	234.1	1.03	0.96	-1.60	
2,550.0	15.50	218.40	2,529.3	-208.9	-152.6	258.6	0.86	0.85	0.53	
2,643.0	15.80	221.50	2,618.9	-228.1	-168.7	283.6	0.96	0.32	3.33	
2,737.0	17.20	220.30	2,709.0	-248.3	-186.1	310.3	1.53	1.49	-1.28	
2,831.0	17.10	222.10	2,798.8	-269.1	-204.4	338.0	0.57	-0.11	1.91	
2,924.0	17.50	221.90	2,887.6	-289.7	-222.9	365.5	0.43	0.43	-0.22	
3,018.0	18.50	220.70	2,977.0	-311.5	-242.1	394.5	1.13	1.06	-1.28	
3,112.0	17.70	219.40	3,066.4	-333.9	-260.9	423.7	0.95	-0.85	-1.38	
3,205.0	17.20	218.00	3,155.1	-355.6	-278.3	451.6	0.70	-0.54	-1.51	
3,299.0	18.00	218.00	3,244.7	-378.0	-295.8	480.0	0.85	0.85	0.00	
3,393.0	18.60	217.00	3,333.9	-401.4	-313.8	509.5	0.72	0.64	-1.06	
3,487.0	17.30	217.20	3,423.4	-424.6	-331.2	538.5	1.38	-1.38	0.21	
3,581.0	17.00	218.90	3,513.2	-446.4	-348.3	566.2	0.62	-0.32	1.81	
3,675.0	16.70	216.10	3,603.1	-468.0	-364.9	593.4	0.92	-0.32	-2.98	
3,768.0	17.30	217.70	3,692.1	-489.7	-381.2	620.6	0.82	0.65	1.72	
3,862.0	17.60	216.80	3,781.7	-512.2	-398.3	648.8	0.43	0.32	-0.96	
3,956.0	19.80	218.00	3,870.8	-536.1	-416.6	678.9	2.38	2.34	1.28	
4,049.0	20.40	218.60	3,958.1	-561.2	-436.4	710.9	0.68	0.65	0.65	
4,143.0	20.80	219.60	4,046.1	-586.8	-457.3	743.9	0.57	0.43	1.06	
4,237.0	20.80	219.10	4,134.0	-612.6	-478.4	777.3	0.19	0.00	-0.53	
4,331.0	20.40	218.70	4,222.0	-638.4	-499.2	810.4	0.45	-0.43	-0.43	
4,424.0	20.10	217.50	4,309.2	-663.7	-519.1	842.5	0.55	-0.32	-1.29	
4,518.0	20.60	217.50	4,397.4	-689.6	-539.0	875.2	0.53	0.53	0.00	
4,611.0	20.50	215.70	4,484.4	-715.9	-558.4	907.9	0.69	-0.11	-1.94	
4,706.0	20.00	216.10	4,573.6	-742.5	-577.7	940.7	0.55	-0.53	0.42	
4,800.0	21.00	215.70	4,661.6	-769.2	-597.0	973.6	1.07	1.06	-0.43	
4,894.0	21.20	218.00	4,749.3	-796.2	-617.3	1,007.5	0.91	0.21	2.45	
4,987.0	19.30	216.40	4,836.6	-821.9	-636.8	1,039.7	2.13	-2.04	-1.72	
5,081.0	21.10	216.10	4,924.8	-848.0	-656.0	1,072.1	1.92	1.91	-0.32	
5,175.0	20.60	215.90	5,012.6	-875.1	-675.6	1,105.6	0.54	-0.53	-0.21	
5,269.0	22.00	213.50	5,100.2	-903.2	-695.0	1,139.7	1.75	1.49	-2.55	
5,362.0	22.70	213.60	5,186.2	-932.6	-714.6	1,174.9	0.75	0.75	0.11	
5,456.0	20.80	212.20	5,273.5	-961.9	-733.5	1,209.7	2.10	-2.02	-1.49	
5,550.0	19.30	213.60	5,361.8	-988.9	-751.0	1,241.8	1.68	-1.60	1.49	
5,644.0	18.50	215.00	5,450.7	-1,014.1	-768.2	1,272.2	0.98	-0.85	1.49	
5,738.0	19.30	214.20	5,539.7	-1,039.2	-785.5	1,302.6	0.89	0.85	-0.85	
5,832.0	20.60	219.10	5,628.0	-1,064.8	-804.6	1,334.6	2.25	1.38	5.21	
5,925.0	20.30	218.90	5,715.2	-1,090.1	-825.1	1,367.1	0.33	-0.32	-0.22	
6,019.0	19.20	220.80	5,803.7	-1,114.5	-845.4	1,398.8	1.35	-1.17	2.02	
6,113.0	18.80	218.90	5,892.5	-1,138.0	-865.0	1,429.4	0.78	-0.43	-2.02	
6,207.0	17.30	217.50	5,981.9	-1,160.9	-883.0	1,458.5	1.66	-1.60	-1.49	
6,301.0	14.70	216.60	6,072.3	-1,181.5	-898.7	1,484.4	2.78	-2.77	-0.96	
6,394.0	11.50	220.80	6,162.8	-1,198.0	-911.8	1,505.5	3.59	-3.44	4.52	

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Well:	SRC Haythorn 32-36D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,488.0	10.90	223.10	6,255.0	-1,211.6	-924.0	1,523.7	0.80	-0.64	2.45
6,581.0	10.60	221.40	6,346.4	-1,224.4	-935.6	1,541.0	0.47	-0.32	-1.83
6,675.0	9.20	216.80	6,439.0	-1,236.9	-945.8	1,557.1	1.71	-1.49	-4.89
6,769.0	6.20	216.80	6,532.1	-1,247.0	-953.4	1,569.7	3.19	-3.19	0.00
6,863.0	4.20	217.20	6,625.8	-1,253.8	-958.5	1,578.2	2.13	-2.13	0.43
6,929.6	2.92	220.87	6,692.2	-1,257.1	-961.1	1,582.4	1.95	-1.92	5.50
TARGET BOX 400' X 400' 1986'FNL, 2065'FEL									
6,957.0	2.40	223.50	6,719.6	-1,258.0	-961.9	1,583.6	1.95	-1.90	9.62
7,050.0	2.00	215.40	6,812.5	-1,260.7	-964.2	1,587.2	0.54	-0.43	-8.71
7,144.0	1.50	206.60	6,906.5	-1,263.2	-965.7	1,590.0	0.60	-0.53	-9.36
7,238.0	1.40	201.30	7,000.4	-1,265.3	-966.7	1,592.3	0.18	-0.11	-5.64
7,332.0	1.50	218.00	7,094.4	-1,267.4	-967.9	1,594.7	0.46	0.11	17.77
7,425.0	0.90	248.30	7,187.4	-1,268.6	-969.3	1,596.5	0.92	-0.65	32.58
7,519.0	0.80	285.70	7,281.4	-1,268.7	-970.6	1,597.4	0.59	-0.11	39.79
7,658.0	0.50	290.10	7,420.4	-1,268.2	-972.1	1,597.9	0.22	-0.22	3.17
7,700.0	0.50	290.10	7,462.4	-1,268.1	-972.5	1,598.1	0.00	0.00	0.00
DRILL TARGET BHL 2143'FNL, 2255'FEL									

Checked By: _____ Approved By: _____ Date: _____